

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

1. Driving device (1), mainly for the windshield wiper assembly of a motor vehicle, which has
- a housing (3),
 - an electric motor (2) located in a housing (3) with a pivoted armature (4),
 - a gear unit located in the housing (3) with a worm shaft (6) located on a section of the armature (4), and
 - an axial thrust generating device (8) to compensate for the axial free play of the armature (4),
- characterized in that one end (5) of the armature (4) is supported at the housing (3) through a support bearing (7) and that the axial thrust generating device (8) possesses a tapered sliding member (9) which is supported in the housing (3) movable in the radial direction relative to the armature (4) and is supported against the armature shaft so that axial force can be applied to the armature shaft (4) in the direction of the support bearing (7) by moving the tapered sliding member (9).
2. Driving device (1) in accordance with claim 1 wherein the armature (4) is supported in a roller bearing (13) with an inner race (13') located on the armature (4) and an outer race (13'') located in one of the gear housing (3) or in the motor housing.
3. Driving device (1) in accordance with claim 2, wherein the roller bearing (13) is located between the worm shaft (6) and the electric motor (2).
4. Driving device (1) in accordance with claim 2 or 3, wherein the outer race (13'') is supported in the housing (3) so that it is

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

5. Driving device (1) in accordance with claim 4 wherein the fixed inner race (13') is attached to the armature (4), so that it can transfer an axial force acting on the outer race (13') to the armature (4).
6. Driving device (1) in accordance with claim 5 wherein a fixed thrust washer is located on the armature (4) on the side of the roller bearing facing away from the tapered sliding member (9).
7. Driving device (1) in accordance with claim 6 wherein the thrust washer (14) is formed as a clamp ring which is located on the armature (14) in an annular groove (15) formed in the armature (14).
8. Driving device (1) in accordance with one of the claims 1 to 7, wherein the tapered sliding member (9) is formed basically U-shaped, where the armature (4) runs in the gap between the two parallel legs of the U.
9. Driving device (1) in accordance with one of the claims 2 to 8, wherein the housing (3) possesses a collar-shaped area (11) which extends radially inward, through which the armature (4) runs and on which the tapered sliding member (9) is supported.
10. Driving device (1) in accordance with claim 9 wherein the surface of the collar-shaped area (11) on which the tapered sliding member (9) is supported has a bevel which matches the bevel on the surface of the tapered sliding member (9) on which the latter is supported in the collar-shaped area (11).

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11. Driving device (1) in accordance with one of the claims 1-10, wherein a displacing force can be applied to the tapered sliding member (9) by means of a spring element (12).
12. Driving device (1) in accordance with claim 11 wherein the spring element (12) is constructed as a helical spring.
13. Driving device (1) in accordance with claim 11 wherein the spring element (12) is constructed as a leaf spring.
14. Driving device (1) in accordance with one of the claims 1 to 13 wherein the spring element (12) is constructed as a rubber spring.
15. Driving device (1) in accordance with one of the claims 11 to 13 wherein the spring element (12) is constructed as a plastic spring.

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